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Sequence Listing was accepted.

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217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=7; day=24; hr=11; min=32; sec=3; ms=537;]

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Application No: 10572529

Version No: 1.0

Input Set:

Output Set:

Started: 2009-07-15 14:38:56.375

Finished: 2009-07-15 14:38:58.940

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 565 ms

Total Warnings: 20

Total Errors: 0

No. of SeqIDs Defined: 59

Actual SeqID Count: 59

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Input Set:

Output Set:

Started: 2009-07-15 14:38:56.375
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No. of SeqIDs Defined: 59
Actual SeqID Count: 59

Error code

Error Description

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SEQUENCE LISTING

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<130> 067437-5021-US

<140> 10572529

<141> 2009-07-15

<150> PCT/US2004/030261

<151> 2004-09-16

<150> US 60/503,447

<151> 2003-09-16

<160> 59

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<211> 43

<212> PRT

<213> Homo sapiens

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1				5					10					15	
Leu	Lys	Ile	Trp	Asn	Asp	His	Phe	Arg	Cys	Gln	Pro	Ala	Pro	Pro	Ile
			20					25					30		
Asp	Glu	Asp	Leu	Pro	Glu	Glu	Arg	Pro	Asp	Asp					
		35						40							

<210> 2

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<212> PRT

<213> Homo sapiens

<400> 2

Asn	Pro	Ile	Ile	Tyr	Pro	Cys	Ser	Ser	Lys	Glu	Phe	Lys	Arg	Ala	Phe
1				5					10					15	
Val	Arg	Ile	Leu	Gly	Cys	Gln	Cys	Arg	Gly	Arg	Gly	Arg	Arg	Arg	Arg
			20					25					30		
Arg	Arg	Arg	Arg	Arg	Leu	Gly	Gly	Cys	Ala	Tyr	Thr	Tyr	Arg	Pro	Trp
			35					40				45			
Thr	Arg	Gly	Gly	Ser	Leu	Glu	Arg	Ser	Gln	Ser	Arg	Lys	Asp	Ser	Leu
			50				55				60				
Asp	Asp	Ser	Gly	Ser	Cys	Leu	Ser	Gly	Ser	Gln	Arg	Thr	Leu	Pro	Ser
65					70					75				80	
Ala	Ser	Pro	Ser	Pro	Gly	Tyr	Leu	Gly	Arg	Gly	Ala	Pro	Pro	Pro	Val
					85					90				95	

Glu	Leu	Cys	Ala	Phe	Pro	Glu	Trp	Lys	Ala	Pro	Gly	Ala	Leu	Leu	Ser
			100						105					110	
Leu	Pro	Ala	Pro	Glu	Pro	Pro	Gly	Arg	Arg	Gly	Arg	His	Asp	Ser	Gly
			115					120					125		
Pro	Leu	Phe	Thr	Phe	Lys	Leu	Leu	Thr	Glu	Pro	Glu	Ser	Pro	Gly	Thr
			130					135				140			
Asp	Gly	Gly	Ala	Ser	Asn	Gly	Gly	Cys	Glu	Ala	Ala	Ala	Asp	Val	Ala
145					150					155					160
Asn	Gly	Gln	Pro	Gly	Phe	Lys	Ser	Asn	Met	Pro	Leu	Ala	Pro	Gly	Gln
				165					170					175	
Phe															

<210> 3
 <211> 29
 <212> PRT
 <213> Homo sapiens

Asn	Pro	Val	Ile	Tyr	Thr	Ile	Phe	Asn	His	Asp	Phe	Arg	Arg	Ala	Phe
1				5					10					15	
Lys	Lys	Ile	Leu	Cys	Arg	Gly	Asp	Arg	Lys	Arg	Ile	Val			
			20					25							

<210> 4
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 <212> PRT
 <213> Homo sapiens

Asn	Pro	Val	Ile	Tyr	Thr	Ile	Phe	Asn	Gln	Asp	Phe	Arg	Arg	Ala	Phe
1				5					10					15	
Arg	Arg	Ile	Leu	Cys	Arg	Pro	Trp	Thr	Gln	Thr	Ala	Trp			
			20					25							

<210> 5
 <211> 30
 <212> PRT
 <213> Homo sapiens

Asn	Pro	Val	Ile	Tyr	Thr	Val	Phe	Asn	Gln	Asp	Phe	Arg	Pro	Ser	Phe
1				5					10					15	
Lys	His	Ile	Leu	Phe	Arg	Arg	Arg	Arg	Arg	Gly	Phe	Arg	Gln		
			20					25					30		

<210> 6
 <211> 105
 <212> PRT
 <213> Homo sapiens

Asn	Pro	Ile	Ile	Tyr	Cys	Arg	Ser	Pro	Asp	Phe	Arg	Lys	Ala	Phe	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
Gly Leu Leu Cys Cys Ala Arg Arg	Ala Ala Arg Arg Arg His Ala Thr		
20	25	30	
His Gly Asp Arg Pro Arg Ala Ser	Gly Cys Leu Ala Arg Pro Gly Pro		
35	40	45	
Pro Pro Ser Pro Gly Ala Ala Ser	Asp Asp Asp Asp Asp Val Val		
50	55	60	
Gly Ala Thr Pro Pro Ala Arg Leu Leu	Glu Pro Trp Ala Gly Cys Asn		
65	70	75	80
Gly Gly Ala Ala Ala Asp Ser Asp Ser	Ser Leu Asp Glu Pro Cys Arg		
85	90	95	
Pro Gly Phe Ala Ser Glu Ser Lys Val			
100	105		

<210> 7
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 7
Asn Pro Leu Ile Tyr Cys Arg Ser Pro Asp Phe Arg Ile Ala Phe Gln
1 5 10 15
Glu Leu Leu Cys Leu Arg Arg Ser Ser Leu Lys Ala Tyr Gly Asn Gly
20 25 30
Tyr Ser Ser Asn Gly Asn Thr Gly Glu Gln Ser Gly Tyr His Val Glu
35 40 45
Gln Glu Lys Glu Asn Lys Leu Leu Cys Glu Asp Leu Pro Gly Thr Glu
50 55 60
Asp Phe Val Gly His Gln Gly Thr Val Pro Ser Asp Asn Ile Asp Ser
65 70 75 80
Gln Gly Arg Asn Cys Ser Thr Asn Asp Ser Leu Leu
85 90

<210> 8
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 8
Asn Pro Ile Ile Tyr Ala Phe Asn Ala Asp Phe Arg Lys Ala Phe Ser
1 5 10 15
Thr Leu Leu Gly Cys Tyr Arg Leu Cys Pro Ala Thr Asn Asn Ala Ile
20 25 30
Glu Thr Val Ser Ile Asn Asn Asn Gly Ala Ala Met Phe Ser Ser His
35 40 45
His Glu Pro Arg Gly Ser Ile Ser Lys Glu Cys Asn Leu Val Tyr Leu
50 55 60
Ile Pro His Ala Val Gly Ser Ser Glu Asp Leu Lys Lys Glu Glu Ala
65 70 75 80
Ala Gly Ile Ala Arg Pro Leu Glu Lys Leu Ser Pro Ala Leu Ser Val
85 90 95
Ile Leu Asp Tyr Asp Thr Asp Val Ser Leu Glu Lys Ile Gln Pro Ile
100 105 110
Thr Gln Asn Gly Gln His Pro Thr
115 120

<210> 9
<211> 22
<212> PRT
<213> Homo sapiens

<400> 9
Asn Pro Ile Ile Tyr Thr Thr Phe Asn Ile Glu Phe Arg Lys Ala Phe
1 5 10 15
Leu Lys Ile Leu His Cys
20

<210> 10
<211> 22
<212> PRT
<213> Homo sapiens

<400> 10
Asn Pro Val Ile Tyr Thr Thr Phe Asn Ile Glu Phe Arg Lys Ala Phe
1 5 10 15
Leu Lys Ile Leu Ser Cys
20

<210> 11
<211> 24
<212> PRT
<213> Homo sapiens

<400> 11
Asn Pro Val Ile Tyr Thr Val Phe Asn Ala Glu Phe Arg Asn Val Phe
1 5 10 15
Arg Lys Ala Leu Arg Ala Cys Cys
20

<210> 12
<211> 123
<212> PRT
<213> Homo sapiens

<400> 12
Asn Pro Val Ile Tyr Ala Phe Asn Ala Asp Phe Gln Lys Val Phe Ala
1 5 10 15
Gln Leu Leu Gly Cys Ser His Phe Cys Ser Arg Thr Pro Val Glu Thr
20 25 30
Val Asn Ile Ser Asn Glu Leu Ile Ser Tyr Asn Gln Asp Ile Val Phe
35 40 45
His Lys Glu Ile Ala Ala Ala Tyr Ile His Met Met Pro Asn Ala Val
50 55 60
Thr Pro Gly Asn Arg Glu Val Asp Asn Asp Glu Glu Glu Gly Pro Phe
65 70 75 80
Asp Arg Met Phe Gln Ile Tyr Gln Thr Ser Pro Asp Gly Asp Pro Val
85 90 95
Ala Glu Ser Val Trp Glu Leu Asp Cys Glu Gly Glu Ile Ser Leu Asp

	100		105		110
Lys	Ile	Thr	Pro	Phe	Thr
		Pro	Asn	Gly	Phe
					His
	115		120		

<210> 13
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 13
 Asn Pro Met Cys Tyr Ala Leu Cys Asn Lys Ala Phe Arg Asp Thr Phe
 1 5 10 15
 Arg Leu Leu Leu Leu Cys Arg Trp Asp Lys Arg Arg Trp Arg Lys Ile
 20 25 30
 Pro Lys Arg Pro Gly Ser Val His Arg Thr Pro Ser Arg Gln Cys
 35 40 45

<210> 14
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 14
 Asn Pro Ala Cys Tyr Ala Leu Cys Asn Ala Thr Phe Lys Lys Thr Phe
 1 5 10 15
 Lys His Leu Leu Met Cys His Tyr Lys Asn Ile Gly Ala Thr Arg
 20 25 30

<210> 15
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 15
 Asn Pro Val Cys Tyr Ala Leu Cys Asn Lys Thr Phe Arg Thr Thr Phe
 1 5 10 15
 Lys Met Leu Leu Leu Cys Gln Cys Asp Lys Lys Lys Arg Arg Lys Gln
 20 25 30
 Gln Tyr Gln Gln Arg Gln Ser Val Ile Phe His Lys Arg Ala Pro Glu
 35 40 45
 Gln Ala Leu
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<210> 16
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 16
 Asn Pro Ala Cys Tyr Ala Leu Cys Asn Ala Thr Phe Lys Lys Thr Phe
 1 5 10 15
 Arg His Leu Leu Leu Cys Gln Tyr Arg Asn Ile Gly Thr Ala Arg
 20 25 30

<210> 17
<211> 42
<212> PRT
<213> Homo sapiens

<400> 17
Asn Pro Ile Cys Tyr Ala Leu Cys Asn Arg Thr Phe Arg Lys Thr Phe
1 5 10 15
Lys Met Leu Leu Leu Cys Arg Trp Lys Lys Lys Lys Val Glu Glu Lys
20 25 30
Leu Tyr Trp Gln Gly Asn Ser Lys Leu Pro
35 40

<210> 18
<211> 24
<212> PRT
<213> Homo sapiens

<400> 18
Asn Pro Val Ile Tyr Ala Tyr Phe Asn Lys Asp Phe Gln Asn Ala Phe
1 5 10 15
Lys Lys Ile Ile Lys Cys Lys Phe
20

<210> 19
<211> 26
<212> PRT
<213> Homo sapiens

<400> 19
Asn Pro Ile Ile Tyr Thr Met Ser Asn Glu Asp Phe Lys Gln Ala Phe
1 5 10 15
His Lys Leu Ile Arg Phe Lys Cys Thr Ser
20 25

<210> 20
<211> 24
<212> PRT
<213> Homo sapiens

<400> 20
Asn Pro Leu Leu Tyr Thr Ser Phe Asn Glu Asp Phe Lys Leu Ala Phe
1 5 10 15
Lys Lys Leu Ile Arg Cys Arg Glu
20

<210> 21
<211> 37
<212> PRT
<213> Homo sapiens

<400> 21

Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys Arg Ala Leu
1 5 10 15
Cys Cys Ile Leu His Leu Tyr Gln His Gln Asp Pro Asp Pro Lys Lys
20 25 30
Gly Ser Arg Asn Val
35

<210> 22

<211> 27

<212> PRT

<213> Homo sapiens

<400> 22

Asn Pro Leu Ile Tyr Thr Leu Arg Asn Met Glu Val Lys Gly Ala Leu
1 5 10 15
Arg Arg Leu Leu Gly Lys Gly Arg Glu Val Gly
20 25

<210> 23

<211> 62

<212> PRT

<213> Homo sapiens

<400> 23

Asn Pro Leu Phe Tyr Gly Phe Leu Gly Lys Lys Phe Lys Arg Tyr Phe
1 5 10 15
Leu Gln Leu Leu Lys Tyr Ile Pro Pro Lys Ala Lys Ser His Ser Asn
20 25 30
Leu Ser Thr Lys Met Ser Thr Leu Ser Tyr Arg Pro Ser Asp Asn Val
35 40 45
Ser Ser Ser Thr Lys Lys Pro Ala Pro Cys Phe Glu Val Glu
50 55 60

<210> 24

<211> 50

<212> PRT

<213> Homo sapiens

<400> 24

Asn Pro Phe Leu Tyr Cys Phe Val Gly Asn Arg Phe Gln Gln Lys Leu
1 5 10 15
Arg Ser Val Phe Arg Val Pro Ile Thr Trp Leu Gln Gly Lys Arg Glu
20 25 30
Ser Met Ser Cys Arg Lys Ser Ser Ser Leu Arg Glu Met Glu Thr Phe
35 40 45
Val Ser
50

<210> 25

<211> 51

<212> PRT

<213> Homo sapiens

<400> 25

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Asn Pro Leu Ile Tyr Ala Phe Ile Gly Gln Lys Phe Arg His Gly Leu
 1           5           10           15
Leu Lys Ile Leu Ala Ile His Gly Leu Ile Ser Lys Asp Ser Leu Pro
      20           25           30
Lys Asp Ser Arg Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr Ser
      35           40           45
Thr Thr Leu
      50
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<210> 26

<211> 67

<212> PRT

<213> Homo sapiens

<400> 26

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Asn Pro Leu Ile Tyr Ala Phe Ala Gly Glu Lys Phe Arg Arg Tyr Leu
 1           5           10           15
Tyr His Leu Tyr Gly Lys Cys Leu Ala Val Leu Cys Gly Arg Ser Val
      20           25           30
His Val Asp Phe Ser Ser Ser Glu Ser Gln Arg Ser Arg His Gly Ser
      35           40           45
Val Leu Ser Ser Asn Phe Thr Tyr His Thr Ser Asp Gly Asp Ala Leu
      50           55           60
Leu Leu Leu
      65
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<210> 27

<211> 59

<212> PRT

<213> Homo sapiens

<400> 27

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Asn Pro Ile Leu Tyr Asn Leu Val Ser Ala Asn Phe Arg His Ile Phe
 1           5           10           15
Leu Ala Thr Leu Ala Cys Leu Cys Pro Val Trp Arg Arg Arg Arg Lys
      20           25           30
Arg Pro Ala Phe Ser Arg Lys Ala Asp Ser Val Ser Ser Asn His Thr
      35           40           45
Leu Ser Ser Asn Ala Thr Arg Glu Thr Leu Tyr
      50           55
```

<210> 28

<211> 107

<212> PRT

<213> Homo sapiens

<400> 28

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Asn Pro Ile Ile Tyr Cys Cys Leu Asn Asp Arg Phe Arg Leu Gly Phe
 1           5           10           15
Lys His Ala Phe Arg Cys Cys Pro Phe Ile Ser Ala Gly Asp Tyr Glu
      20           25           30
Gly Leu Glu Met Lys Ser Thr Arg Tyr Leu Gln Thr Gln Gly Ser Val
```

35	40	45
Tyr Lys Val Ser Arg Leu Glu Thr Thr Ile Ser Thr Val Val Gly Ala		
50	55	60
His Glu Glu Glu Pro Glu Asp Gly Pro Lys Ala Thr Pro Ser Ser Leu		
65	70	75
Asp Leu Thr Ser Asn Cys Ser Ser Arg Ser Asp Ser Lys Thr Met Thr		80
	85	90
		95
Glu Ser Phe Ser Phe Ser Ser Asn Val Leu Ser		
100	105	

<210> 29
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 <213> Homo sapiens

<400> 29
Asn Pro Trp Ile Tyr Ala Ser Phe Ser Ser Ser Val Ser Ser Glu Leu
1 5 10 15
Arg Ser Leu Leu Cys Cys Ala Arg Gly Arg Thr Pro Pro Ser Leu Gly
20 25 30
Pro Gln Asp Glu Ser Cys Thr Thr Ala Ser Ser Ser Leu Ala Lys Asp
35 40 45
Thr Ser Ser
50

<210> 30
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 30
Asn Pro Val Ile Tyr Asn Leu Met Ser Gln Lys Phe Arg Ala Ala Phe
1 5 10 15
Arg Lys Leu Cys Asn Cys Lys Gln Lys Pro Thr Glu Lys Pro Ala Asn
20 25 30
Tyr Ser Val Ala Leu Asn Tyr Ser Val Ile Lys Glu Ser Asp His Phe
35 40 45
Ser Thr Glu Leu Asp Asp Ile Thr Val Thr Asp Thr Tyr Leu Ser Ala
50 55 60
Thr Lys Val Ser Phe Asp Asp Thr Cys Leu Ala Ser Glu Val Ser Phe
65 70 75 80
Ser Gln Ser

<210> 31
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 31
Asn Pro Trp Ile Tyr Met Leu Phe Thr Gly His Leu Phe His Glu Leu
1 5 10 15
Val Gln Arg Phe Leu Cys Cys Ser Ala Ser Tyr Leu Lys Gly Arg Arg
20 25 30

Leu Gly Glu Thr Ser Ala Ser Lys Lys Ser Asn Ser Ser Ser Phe Val
 35 40 45
 Leu Ser His Arg Ser Ser Ser Gln Arg Ser Cys Ser Gln Pro Ser Thr
 50 55 60
 Ala
 65

<210> 32
 <211> 75
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 <213> Homo sapiens

<400> 32
 Asn Pro Val Leu Tyr Ser Leu Met Ser Ser Arg Phe Arg Glu Thr Phe
 1 5 10 15
 Gln Glu Ala Leu Cys Leu Gly Ala Cys Cys His Arg Leu Arg Pro Arg
 20 25 30
 His Ser Ser His Ser Leu Ser Arg Met Thr Thr Gly Ser Thr Leu Cys
 35 40 45
 Asp Val Gly Ser Leu Gly Ser Trp Val His Pro Leu Ala Gly Asn Asp
 50 55 60
 Gly Pro Glu Ala Gln Gln Glu Thr Asp Pro Ser
 65 70 75

<210> 33
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 <212> PRT
 <213> Homo sapiens

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 Asn Pro Leu Val Tyr Cys Phe Met His Arg Arg Phe Arg Gln Ala Cys
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 Leu Glu Thr Cys Ala Arg Cys Cys Pro Arg Pro Pro Arg Ala Arg Pro
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